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STATISTICAL REPORT OF SURVEY ON SOUTHERN OREGON - NORTHERN CALIFORNIA PINE BEETLE CONTROL PROJECT DURING SEASON 1924

STATISTICAL REPORT NO. 3.

U.S.Bureau of Entomology
Forest Insect Field Station
Palo Alto, Calif.

February 1, 1925.

F. P. Keen
Associate Entomologist.

STATISTICAL REPORT SURVEY

ON

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PREFACE

The data included in this report were secured by an extensive survey of the Southern Oregon-Northern California Pine Beetle Control Project carried out by a three man crew of the Bureau of Entomology from May to November 1924. This cruise consisted for the most part of recruising the sixty sample sections thruout the project and marking, numbering and mapping all of the trees which had been killed since the cruise of the previous year. This work was done by one three man crew working for six months instead of three crews working for two months as in the previous year's survey. Mr. W.J. Burkhorn was in charge of the crew and spotted; Mr. I.J. Hastings was the other spotter and Mr. H.H. Keifer ran compass and mapped.

The tables of this report show the total loss of 1923 by units, areas and for the project as a whole. They are to be considered as supplemental to the statistical report issued February 1, 1924. By comparing the losses of 1922 as shown in the previous report, with the losses of 1923 as contained in these tables, the effect of control and the progress of the infestation by units, areas and for the project as a whole can be determined.

An analysis of the results of control and a comparison of the losses as shown by these tables will be given in a technical report.

F.P. Keen
Associate Entomologist.

ERRATA

The following corrections should be made in the tables of the statistical report of February 1, 1924:

Table 3 - Big Bend Unit	- Change	State volume 900 to 0.
	"	Association volume 34,100 to 35,000.
Jenny Cr. Unit	- "	Vacant volume 73,500 to 7,400.
	"	Association volume 155,300 to 221,400.
Totals	"	Vacant volume 115,700 to 49,600
	"	State volume 4,100 to 3,200
	"	Association volume 2,642,000 to 2,709,000
Table 12-Public Domain	- Change	Area 1 volume 115,700 to 49,600
	- "	Total " 790,100 to 724,000
Total U.S.	- "	Area 1 volume 726,400 to 660,300
	- "	Total " 6,456,700 to 6,390,600
State	- "	Area 1 volume 4,100 to 3,200.
	- "	Total " 45,300 to 44,400
Association	- "	Area 1 volume 2,642,000 to 2,709,000
	- "	Total " 4,921,100 to 4,988,100
Total Private	- "	Area 1 volume 2,999,600 to 3,066,600.
	"	Total " 3,549,500 to 6,316,500

Table 34 - Change title Area 1 to Area 2.

Table 44 - Change title (Treating overwintering generation 1923 to 1922)

SURVEY OF 1924
SUMMARY OF CRUISING DATA ON CHECK SECTIONS.

1922 F. Loss	Total Cruise	Total Estimate	AREA I.	1923 G. Loss. Total Cruise	Total Estimate
ASPEN LAKE					
T 37 S R 7 E Sec. 34.					
1923 - July Cruise GS 47 GW 67	114	130	1923 - Fall Cruise W½ Sec. GS 11 GW 12 1924 - May Cruise GS 41 GW 51 1924 - May Reworked GS 17 GW 9	92	105
T 38 S R 7 E Sec. 5 W½					
1922 - Oct. treating GW 12 1922 - Nov. Cruise GW 7 1924 - Oct. Cruise GS 5 GW 3	27	30	1924 - Oct. Cruise GS 8 GW 8	16	20
T 38 S R 7 E Sec. 8 W½					
1922 - Oct. Treating GW 55 1922 - Nov. Cruise GW 5 1924 - Oct. Cruise GS 16 GW 5	81	85	1924 - Oct. Cruise GS 17 GW 26	43	50
BIG BEND					
T 40 S R 7 E Sec. 18					
1923 - July Cruise GS 15 GW 57	72	80	1924 - May Cruise GS 42 GW 34	76	85
CHASE BUTTE					
T 40 S R 8 E Sec. 18 N W ¼					
1923 - June Cruise GS 4 GW 11	15	20	1924-May Cruise GS 8 GW 10	18	20

CLOVER STATION

T 38 S R 6 E Sec. 36.

1922 - F. Loss	Cruise	Est'm.	1923 - G. Loss	Cruise	Estimate
1923 - Spring treating FW 122					
1923 - Aug. Cruise FS 18 FW 29	169	185	1923 - Aug. Cruise GS 26		
			1924 - Jan. Cruise ½ Sec. GW 35		
			1924 - May Cruise GS 41 GW 61		
			" - May Remarked GS 15 GW 9	102	115

T 39 S R 7 E. Sec. 16.

1923 - Spring treating FW 105					
1923 - Aug. Cruise FS 32 FW 6	143	155	1924 - Jan. Cruise (½ Sec.) GW 15		
			1924 - May Cruise GS 23 GW 34	57	65
			" - May Remarkd GS 5 GW 4		

T 39 S R 7 E Sec. 6

1923 - Spring treating FW 135			1924 - Oct. Cruise GS 23 GW 36	59	65
1923 - Aug. Cruise FS 22 FW 36	193	210	" - " Remarked GS 2 GW 1		

T 39 S R 6 E Sec. 1

1922-23 - Winter Treating FW 154			1924 - Oct. Cruise GS 24 GW 50	74	85
1923 - June Cruise FS 28 FW 27	209	225			
1924 - Oct. Cruise FS 2 FW 2					

EAGLE RIDGE

T 37 S R 7 E Sec. 16.

1922 - July Cruise FS 10			1924 - June Cruise GS 17 GW 36	53	60
1923 - July Cruise FS 25 FW 41	76	85	" - " Remarked GS 9 GW 9		
~~1924 - Jan. Cruise ½ Sec. GS 6 GW 8~~			1924 - Jan. Cruise ½ Sec. GS 6 GW 8		

JENNY CREEK

T 40 S R 4 E Sec. 34.

1923 - Spring treating FW 35			1924 - May Cruise GS 35 GW 38	73	85
1923 - July cruise FS 17 FW 28	80	85			

1922 - F. Loss	Total Cruise	Total Estimate		1923 - G Loss	Total Cruise	Total Estimate
JOHNSON PRAIRIE						
T 39 S R 5 E Sec. 7.						
1923 - Aug. Cruise GS 12 GW 21	33	35	1924 - May Cruise GS 25 GW 53		78	90
			" - " Remarked GS 6.			
KLAMATH CANYON						
T 41 S R 6 E Sec. 9 S ½						
1923 - June Cruise FS 26 FW 71	97	110	1923-24 - Winter Treating GW 32			
			1924 - May Cruise GS 57 GW 17		106	115
			" - " remarked GS 1			
POKEGAMA.						
T 40 S R 5 E Sec. 36.						
1923 - Spring treating FW 51			1924 - May Cruise GS 35 GW 52		87	100
1923 - July Cruise FS 27 FW 36	114	125	" - " Remarked GS 2			
ROUND LAKE						
T 39 S R 8 E Sec. 5.						
1923 - July Cruise FS 52 FW 51	103	115	1923 - Dec. (W½) GS 9 GW 6			
1923 - [illegible]			1924 - June Cruise GS 27 GW 37		64	70
			" - " Remarked GS 8 GW 6			
TOPSY						
T 40 S R 7 E Sec. 33						
1923 - June Cruise FS 20 FW 39	59	65	1923 - Fall Treating	GW 26		
			1924 - May Cruise GS 19	GW 24	69	75
WORDEN						
T 40 S R 7 E Sec. 31 m/2						
1923 - June Cruise FS 26 FW 32	58	65	1923 - Fall Treating	GW 12		
			1924 - May Cruise GS 9	GW 14	35	40

AREA 2.

ALGOMA.

T 38 S R 9 E Sec. 4.

1922 - F. Loss	Total Cruise	Total Estimate	1923 - G. Loss	Total Cruise	Total Estimate
1923 - July Cruise FS 7 FW 42	49	55	1924 - July Cruise GS 20 GW 28	48	55
			" - " Remarked GS 2 GW 5		

ANTELOPE

T 36 S R 8 E Sec. 34

1922 - Summer Treating FS 37			1923 - Sept. Cruise GS 37		
1922 - Fall Treating FW 57			1924 - June Cruise GS 17 GW 27	44	50
1923 - Sept. Cruise FS 19 FW 30	143	150	" - " Remarked GS 7		

T 36 S R 8 E Sec. 28

1922 - Summer Treating FS 43			1923 - Sept. Cruise GS 14		
1922 - Fall Treating FW 66			1923 - Nov. " 3/8 Sec. GS 9 GW 13		
1923 - Summer Cruise FS 25 FW 28	156	160	1924 - Aug. Cruise GS 32 GW 68	100	110
			1924 - " Remarked GS 2 GW 3		

T 37 S R 9 E Sec. 12.

1922 - Fall Treating FW 56			1923 - Sept. Cruise GS 17		
1923 - Sept. Cruise FS 46 FW 14	116	125	1924 - Oct. Cruise GS 14 GW 27	41	45
			1924 - " " Remarked GS 4		

BLACK HILLS

T 35 S R 13 E Sec. 18.

1923 - July Cruise FS 44 FW 75	117	135	1924 - Spring Treating GW 36		
			1924 - July Cruise GS 21 GW 4		
			" - " Remarked GS 2	61	65

1922 - F. Loss	Total Cruise	Total Estimate	BLY T 37 S R 13 E Sec. 6.	1923 - G. Loss Total Cruise	Total Estimate
1923 - June Cruise FS 23 FW 62	85	100	1924 - June Cruise GS 24 GW 33	57	65
			CHILOQUIN. T 35 S R 7 E Sec. 24.		
1923 - Spring Treating FW 42 1923 - Aug. Cruise FS 15 FW 9	66	70	1923 - Aug. Cruise GS 11 1924 - Feb. Cruise (½ Sec.) GW 15 1924 - June Cruise GS 14 GW 26 1924 - " Remarked GS 3 GW 6	40	45
			FERGUSON T 35 S R 13 E Sec. 33.		
1923 - June Cruise FS 60 FW 65	125	140	1924 - Spring Treating GW 70 1924 - July Cruise GS 34 GW 15	119	125
			GERBER T 38 S R 13 E Sec.24.		
1923 - July Cruise FS 31 FW 42	73	85	1924 - July Cruise GS 29 GW 60	89	100
			GOODLOE T 38 S R 13 E Sec. 5		
1923 - Aug. Cruise FS 21 FW 47	68	75	1924 - Jan. Cruise (½ Sec.) GW 6 1924 - July Cruise GS 13 GW 21 1924 - " Remarked GW 3	34	40
			HILDEBRAND T 37 S R 11 E Sec.27.		
1923 - Aug. Cruise FS 31 FW 67	98	110	1924 - Winter Treating GW 12 1924 - June Cruise GS 14 GW 6	32	35

ROCK CANYON
T 38 S R 11 E Sec. 12.

1922 - F. Loss	Total Cruise	Total Estimate		1923 - G. Loss	Total Cruise	Total Estimate
1923 - Aug. Cruise FS 9 FW 28	37	40	1924 - Spring Treating	GW 8		
			1924 - July Cruise GS 13	GW 13	34	35

ROYSTON
T 38 S R 11 E Sec. 12.

1923 - Aug. Cruise FS 61 FW 90	151	170	1924 - Jan. Cruise (½ Sec.)	GW 21		
			1924 - Spring Treating	GW 19		
			1924 - July Cruise GS 28	GW 44	91	95
			1924 - " Remarked GS 2	GW 8		

SADDLE MT.
T 35 S R 8 E Sec.22.

1922 - Fall Treating FW 84			1923 - Aug. Cruise GS 17			
1923 - Aug. Cruise FS 53 FW 19	156	170	1924 - Feb. Cruise (½ Sec.)	GW 15		
			1924 - June Cruise GS 23	GW 32	55	60
			1924 - " Remarked GS 3	GW 2		

T 35 S R 8 E Sec.35.

1922-Fall Treating FW 65			1923 - Aug. Cruise GS-24			
1923 - Aug. Cruise FS 29 FW 29	123	135	1924 - Sept. Cruise GS 23	GW 38	61	70
			" - " Remarked GS 6			

T 35 S R 8 E Sec. 4

1923 - Spring Treating FW 72			1924 - Feb. Cruise (½ Sec.)	GW 14		
1924 - Sept. Cruise FS 28 FW 15	115	135	1924 - Sept. " GS 18	GW 36	54	65
			1924 - " Remarked GS 2	GW 11		

SHONER UNIT
T 38 S R 10 E Sec. 34.

1922 - F. Loss	Total Cruise	Total Estimate	1923 - G. Loss	Total Cruise	Total Estimate
1923 - July Survey FS 45 FW 61	106	110	1924 - July Survey GS 19 GW 17	36	40

SPRAGUE UNIT
T 34 S R 8 E Sec. 32.

1923 - Spring Treating FW 78			1923 - Aug. Cruise GS 5		
1923 - Aug. Cruise FS 4 FW 4	86	95	1924 - June Survey GS 18 GW 27	45	50
			" - " Remarked GS 1		

SQUAW FLAT
T 37 S R 11½E Sec. 9.

1923 - Spring Treating FW 37			1924 - June Cruise GS 13 GW 23	36	40
1923 - Aug. Cruise FS 30 FW 21	88	95			

SWAN
T 37 S R 9 E Sec. 26.

1923 - July Cruise FS 16 FW 60	76	85	1924 - July Cruise GS 25 GW 30	55	65
			" " Remarked GS 2		

SYCAN
T 34 S R 12 E Sec. 2.

1923 - July Cruise FS 53 FW 76	129	145	1924 - July Cruise GS 57 GW 69	126	145

TROUT CREEK
T 36 S R 9 E Sec. 2.

1923 - Spring Treating FW 40			1924 - Sept. Cruise GS 8 GW 17	25	30
1923 - Aug. Cruise FS 14 FW 7	61	65			

TROUT CREEK. (Cont'd.)

1922 - F. Loss	Total Cruise	Total Estimate	T 36 S R 9 E Sec. 23.	1925 - G. Loss Total Cruise	Total Estimate
1923 - Spring treating GA. 164			1924 - Sept. Cruise GS 32 GA. 61	93	105
1923 - Aug. Cruise FS 47 FA. 13	224	240			
			T 36 S R 9 E Sec. 25.		
1923 - Spring Treating GA. 125			1924 - June Cruise GS 23 GA. 33	56	65
1923 - Aug. Cruise FS 32 FA. 4	161	175			
			WHISLEY CREEK T 37 S R 11 E Sec. 2.		
1923 - June Cruise FS 54 FA. 76	130	150	1923 - Fall Treating GA. 17		
			1923 - June Cruise GS 40 GW 25	82	85
			WILLOW FLAT T 37 S R 13 E Sec. 20.		
1923 - July Cruise FS 49 FA. 72	121	140	1924 - Spring Treating GA. 56		
			1924 - July Cruise GS 37 GA. 8	101	105
			YAINAX T 36 S R 10 E Sec.24		
1923 - June Cruise FS 29 FA. 54	83	95	1923 - Fall Treating GA. 25		
			1924 - June Cruise GS 9 GW 13	47	50

AREA 3.

BARNES VALLEY

1922 - F. Loss	Total Cruise	Total Estimate	T 39 S R 15 E Sec. 36.	1923 - G. Loss Total Cruise	Total Estimate
1923 - Aug. Cruise DS 13 FW 31	44	50	1924 - Sept. Cruise GS 10 GW 24	34	40
			CROWDER FLAT		
			T 47 N R 11 E Sec. 10.		
1922 - Sept. Cruise F 91 Trees			1925 Sept. Cruise GS 21 GW 27	48	55
1922 - Fall Treating FW 74	125	140			
			T 47 N R 11 E Sec. 18.		
1922 - Sept. Cruise F 60			1923 - Nov. Cruise GS 13 GW 23		
1922 - Fall Treating FW151			on ½ Sections		
1923 - Aug. Cruise FS 6 FW 31	248	270	1924 - Aug. Cruise GS 20 GW 44	66	75
			" - " Remarked GS 9 GW 13		
			T 48 N R 11 E Sec. 32.		
1922 - Fall Treating FW 60			1924 - Sept. Cruise GS 25 GW 44	69	80
1923 - July Cruise FW 35 FW 19	112	120			
			T 47 N R 12 E Sec. 4.		
1924 - Sept. Cruise FS 32 FW 17	49	80	1923 - Fall Treating GW 7		
			1924 - Sept. Cruise GS 14 GW 14	35	40
			T 47 N R 12 E Sec. 18		
1923 - July Cruise FS 15 FW 28	43	45	1924 - Sept. Cruise GS 1 GW 12	13	15

1922 - F. Loss	Total Cruise	Total Estimate	1923 - G. Loss	Total Cruise	Total Estimate
DELLING CREEK					
T 36 S R 15 E Sec. 8.					
1923 - Spring treating FW 76			1924 - Aug. Cruise GS 43 GW 98		
1923 - Aug. Cruise FS 40 FW 16	132	145	" - " Remarked Gs 19 GW 24	141	160
T 36 S R 15 E Sec.25.					
1923 - Spring Treating FW 48			1924 - Aug. Cruise GS 16 GW 51	67	75
1923 - Aug. Cruise FS 7 FW 7	62	70	" - " Remarked GS 6 GW 9		
DOG LAKE					
T 40 S R 17 E. Sec. 21					
1923 - Spring treating FW 8			1924 - Aug. Cruise GS 5 GW 14	19	20
1923 - June Cruise FS 9 FW 22	39	45			
FOUR MILE					
T 41 S R 15 E Sec. 1.					
1923 - Aug. Cruise FS 18 FW 38	56	65	1924 - Sept. Cruise GS 8 GW 10	18	20
T 48 N R 10 E Sec. 21					
1923 - July Cruise FS 17 FW 40	57	65	1923 - July Cruise 13 GStrees marked		
			1924 - Sept. Cruise GS 16 GW 12	28	35
			" " " 11 GS remarked		
HAY CREEK					
T 40 S R 16 E Sec.2.					
1923 - June Cruise FS 13 FW 32	45	50	1924 - Sept. Cruise GS 14 GW 19	33	35

HORSEFLY

1922 - F. Loss	Total Cruise	Total Estimate	T 38 S R 14 E Sec.13.	1923 - G. Loss Total Cruise	Total Estimate
1923 - July Cruise FS 20 FW 55	75	85	1923 - Nov. Cruise GS 23 GW 51 on ½ Sec.		
			1924 - Spring treating 70 GW	121	130
			T 38 S R 14 E Sec.36.		
1922 - Summer Treating FS 50			1923 - Sept. Cruise - 38 G trees noted		
1922 - Fall control FW 54			1923 - Nov. " GS 20 GW 38		
1923 - Sept. Cruise FS 33 FW 56	193	200	on ½ section		
			1924 - Spring treating GW 53		
			1924 - Aug. Cruise - GS 30 GW 18	101	105
			" - " Remarked GS 12 GW 2		
			MERRITT CREEK		
			T 38 S R 14 E Sec. 34.		
1923 - Aug. Cruise FS 15 FW 26	41	45	1923 - Aug. Cruise GS 21		
			1924 - Aug. Cruise GS 41 GW 63	104	120
			" - " Remarked GS 19		
			MERYL CREEK		
			T 35 S R 14 E Sec. 11.		
1923 - Spring Treating FW 85			1923 - Aug. Cruise - GS 19		
1923 - Aug. Cruise FS 70 FW 30	185	200	1923 - Dec. Cruise GS 10 GW 10 on 3/8 Sec.		
			1924 - Aug. Cruise GS 43 GW 55		
			" - " Remarked GS 32 GW 5	98	110

BERYL CREEK (Cont'd)

1922 - F. Loss	Total Cruise	Total Estimate	1923 - G. Loss	Total Cruise	Total Estimate
T 35 S R 15 E Sec. 20.					
1923 - Spring Treating FW 74 1923 - Aug. Cruise FS 34 FW 5	113	120	1923-Aug. Cruise 20 GS marked 1923 - Dec. Cruise GS 14 GW 14 on 7/16 of Sec. 1924 - Aug. Cruise GS 36 GW 48 " - " Remarked, GS 32 GW 9	84	95
T 34 S R 14 E Sec. 34.					
1923 - Spring Treating FW 63 1924 - Sept. Cruise FS 23 FW 5	91	110	1924 - Sept. Cruise GS 23 GW 46	69	80
OWENS					
T 38 S R 15 E Sec. 1					
1922 - Nov. Cruise FS 21 FW 11 1923 - July Cruise FS 1 FW 24	57	65	1924 - Aug. Cruise GS 26 GW 33	59	65
T 37 S R 16 E. Sec. 29.					
1922 - Nov. Cruise FS 28 FW 42 1923 - Dec. " FW 7	77	85	1923 - Nov. Treating GW 55 1923 - Dec. Cruise GS 36 GW 3	94	105
QUARTZ VALLEY					
T 38 S R 17 E Sec. 7 E ½ & Sec. 8W ½					
1923 - June Cruise FS 33 FW 65	98	110	1923 - Fall Treating GW 46 1924 - Aug. Cruise GS 23 GW 19	88	100
SCAB ROCK					
T 40 S R 15 E Sec. 33.					
1923 - Aug. Cruise FS 7 FW 18	25	30	1924 - Sept. Cruise GS 7 GW 11	18	20

WHITWORTH CREEK

T 37 S R 16 E Sec. 17.

1922 - F. Loss		Total Cruise	Total Esti.	1923 - G. Loss	Total Cruise	Total Estimate
1922 - Spring Treating	FW 96			1924 - Avg. Cruise GS 64 GM 159	223	250
1922 - July Cruise FS 44	FW 30	170	185	" - " Remarked GS 3		

TABLE NO. I.
AREA #I.

SUMMARY OF YELLOW PINE LOSSES FOR 1923.

Name of Unit	No. Trees Killed	Average Volume Per Tree	Volume Killed	Stumpage Value	Value of Loss	Percent Killed	Loss per Acre Bd. Ft.	Trees killed per Sec. Average	Trees killed per Sec. Maximum
Aspen Lake [1,2]	1,440	1,100	1,584,000	$5.50	$8,712	.58	94	54	105
Big Bend [2,3]	540	1,200	648,000	5.50	3,564	.94	89	47	85
Chase Butte [2]	580	1,100	638,000	4.50	2,871	.50	55	32	60
Clover Station [2]	2,840	1,000	2,840,000	5.50	15,620	.41	55	35	115
Eagle Ridge [1]	1,350	1,000	1,350,000	6.50	8,775	.70	75	48	115
Jenny Creek [2]	2,180	1,100	2,398,000	4.50	10,791	.64	53	31	100
Johnson Prairie [3]	2,100	1,400	2,940,000	4.50	13,230	.48	61	28	90
Klamath Canyon [2]	1,580	600	948,000	2.50	2,370	1.60	84	90	175
Pokegama [1,2]	3,720	1,300	4,836,000	5.00	24,180	.61	98	48	120
Round Lake [3]	1,070	1,000	1,070,000	5.50	5,885	.48	58	37	70
Tobey [3]	1,960	1,300	2,548,000	4.50	11,466	1.00	100	49	200
Worden	440	1,200	528,000	4.50	2,376	.83	71	38	80
Total	19,800	1,130	22,328,000	4.92	109,840	.60%	72	41	200

1 Units on which 1921 loss was treated
2 Units on which 1922 loss was treated
3 Units on which 1923 loss was treated.

TABLE NO. 2.
AREA 2.

SUMMARY OF YELLOW PINE LOSSES FOR 1923.

Name of Unit.	No. Trees Killed	Average Volume Per tree	Volume Killed	Stumpage Value	Value of Loss	Percent Killed	Loss per Acre Bd. Ft.	Trees killed per Sec. Average	Trees killed per Sec. Maximum
Algoma [1]	360	1,100	396,000	$4.50	1,782	.91	46	28	60
Antelope [2]	1,030	800	824,000	4.50	3,708	.25	33	27	110
Black Hills [3]	2,210	1,100	2,431,000	4.00	9,724	.46	65	38	130
Bly	1,700	1,100	1,870,000	4.50	8,415	.71	67	39	90
Chiloquin [2]	560	1,000	560,000	4.50	2,520	.25	26	16	45
Ferguson [3]	1,050	900	945,000	4.00	3,780	.65	83	59	150
Gerber	350	900	315,000	3.50	1,103	1.03	56	39	100
Goodlow	700	800	560,000	3.50	1,960	.74	46	36	60
Hildebrand [3]	840	800	672,000	4.50	3,024	.39	40	31	55
Rock Canyon [3]	1,100	1,100	1,210,000	4.00	4,840	.78	100	58	90
Royston [3]	1,520	800	1,216,000	3.50	4,256	.71	100	80	175
Saddle Mt. [2]	1,450	1,000	1,450,000	4.50	6,525	.37	37	24	70
Shoner [1]	450	700	315,000	4.50	1,418	.30	25	23	40

TABLE NO. 2 (Cont'd)

Name of Unit	No. Trees Killed	Average Volume Per Tree	Volume Killed	Stumpage Value	Value of Loss	Percent Killed	Loss per Acre Bd. Ft.	Trees Killed per Sec. Average	Trees Killed per Sec. Maximum
Sprague [2]	250	1,000	250,000	$5.50	1,375	.41	47	30	55
Squaw Flat [2]	620	900	558,000	4.50	2,511	.32	36	25	55
Swan [1]	870	1,000	870,000	4.50	3,915	.60	59	38	70
Sycan	3,070	900	2,763,000	3.50	9,671	.49	69	49	145
Trout Cr. [2]	1,520	900	1,368,000	4.50	6,161	.38	40	28	105
Whiskey Cr. [3]	2,400	1,000	2,400,000	4.50	10,800	.77	96	61	200
Willow Flat [3]	2,800	900	2,520,000	4.50	11,340	.65	77	55	125
Yainax [3]	1,150	900	1,035,000	4.50	4,658	.55	66	47	80
Total	26,000	945	24,528,000	$4.22	103,486	.51	58	39	200

1 Units on which 1921 loss was treated
2 Units on which 1922 loss was treated
3 Units on which 1923 loss was treated.

Private 10/25

TABLE NO 3.
AREA 3.

SUMMARY OF YELLOW PINE LOSSES FOR 1923.

Name of Unit	No. Trees Killed	Average Volume Per Tree	Volume Killed	Stumpage Value	Value of Loss	Percent Killed	Loss per Acre Bd. Ft.	Trees killed per Sec. Average	Trees killed per Sec. Maximum
Barnes Valley	1,900	800	1,520,000	$3.00	$4,560	.45	35	28	55
Crowder Flat 2,3	3,550	1,200	4,260,000	3.50	14,910	.49	47	25	90
Deming Creek 2	2,450	1,000	2,450,000	4.50	11,025	1.03	74	47	180
Dog Lake	1,850	1,000	1,850,000	3.00	5,550	.48	35	22	50
Four Mile	1,300	1,000	1,300,000	3.00	3,900	.42	34	22	40
Hay Creek	950	900	855,000	3.00	2,565	.46	45	32	70
Horsefly 1,2,3,	2,350	900	2,115,000	4.50	9,518	.71	53	34	130
Merritt Creek	2,000	900	1,800,000	3.50	6,300	1.25	83	59	155
Meryl Creek 2	3,600	1,000	3,600,000	4.50	16,200	.70	57	36	110
Owens 1,3	2,900	900	2,610,000	4.50	11,745	.80	68	48	140
Quartz Valley 3	2,150	1,000	2,150,000	4.50	9,675	.73	91	41	100
Scab Rock	900	900	810,000	3.00	2,430	.55	41	30	115
Whitworth 2	2,500	900	2,250,000	4.50	10,125	1.24	66	47	250
Totals	28,400	970	27,570,000	$3.95	$108,503	.65	52	22	250

1 Units on which 1921 loss was treated
2 Units on which 1922 loss was treated
3. Units on which 1923 loss was treated.

TABLE NO. 4

PROJECT TOTALS

SUMMARY OF YELLOW PINE LOSSES FOR 1923.

ITEMS	AREA 1.	AREA 2.	AREA 3.	TOTALS
No.Trees Killed	19,800	26,000	28,400	74,200
Average Volume per tree	1,130	945	970	1,000
Volume killed	22,328,000	24,528,000	27,570,000	74,426,000
Average Value per M.B.M.	$4.92	$4.22	$3.95	$4.32
Value of stumpage lost	$109,840	$103,486	$108,503	$321,829
Percent of stand killed	.60%	.51%	.65%	.58%
Loss in board feet per acre..	72	58	52	59
Aver. No. trees killed per sec.	41	39	22	38
Max. " " " " "	200	200	250	250

TABLE NO. 5.
FALL CONTROL - 1923

TREATING OVER-INTERATION GENERATION of 1923.

Area	Unit	Camp No.	Operating Period	Trees Treated	Volume Treated	Acreage Covered	Cost	Aver. Vol. per Tree	Aver. No. trees treated per Sec.
	Worden	18	Nov. 2 - Nov. 7	25	36,340	1,120	$ 355.14*	1,450	16
I.	Topsy	18	Nov. 9 - Dec.12	343	584,700	3,880	2,733.00*	1,700	56
	Big Bend	18	Nov.27 - Dec.12	83	147,380	1,480	778.00*	1,780	36
	Total Area I.			451	768,420	6,480	$ 3,866.14	1,700	45
	Yainax	20	Oct. 7 - Oct.23	321	270,720	8,320	$ 1,883.00*	850	25
2.	Whiskey Cr.	20	Oct.23 - Dec. 4	819	903,900	16,240	4,758.00*	1,100	32
	Hildebrand	20	Dec. 4 - Jan. 8 '24	18	19,790	640	130.20*	1,100	18
	Total Area 2.			1,158	1,194,410	25,200	$ 6,771.20	1,030	29
	Crowder Flat	38	Oct. 1 - Oct.18	235	317,110	11,680	$ 1,534.00*	1,350	13
3.	Quartz Valley	38	Oct.19 - Nov.17	712	806,660	17,720	$ 3,334.64*	1,130	26
	Owens	38	Nov.18 - Dec. 6	527	500,040	7,120	$ 1,957.00*	950	48
	Total Area 3			1,474	1,623,810	36,520	$ 6,825.64	1,100	26
	Project Total			3,083	3,586,640	68,200	$ 17,462.98	1,160	29

* Estimated

TABLE NO. 6.
SPRING CONTROL - 1924.

Area	Unit	Camp No.	Operating Period	Trees Treated	Volume Treated	Acreage Covered	Cost	Aver. Vol. per Tree	Aver. No. Trees treated per Sec.
1.	Klamath Cany.	19	Jan. 13 - Feb. 29	582	601,590	5,000	$3,159.25	1,030	75
	K.F.P.A.-work								
	Hildebrand	19	Mar. 4 - Mar. 14	94	133,000	2,720	621.80*	1,420	17
	Rock Canyon	19	Mar. 17 - Apr. 12	350	451,710	6,320	1,677.00*	1,310	32
2	Royston	19	Mar. 27 - Apr. 18	541	474,080	8,360	$2,081.45*	875	40
	Willow Flat	19	Apr. 16 - Apr. 30	309	356,200	6,200	1,481.00*	1,150	28
	Work								
	Total K.F.P.A.			1,294	1,414,990	23,600	$5,861.25*	1,090	35
	U.S.I.S. Work								
	Ferguson	21	Apr. 8 - May 2	363	434,400	4,800	1,499.12*	1,200	48
	Black Hills	21	Apr. 11 - May 10	262	314,400	5,360	1,241.00*	1,200	32
	Work								
	Total U.S.I.S.			625	748,800	10,160	$2,740.12*	1,200	39
	U.S.F.S. Work								
	Willow Flat	40	Apr. 15 - May 10	416	362,860	6,040	$1,577.00*	870	44
Total Area 2				2,335	2,526,650	39,800	10,176.37	1,080	38
3	Horsefly	39	Apr. 7 - May 3	724	862,510	8,240	$3,488.66	1,080	48
Project Totals				3,641	3,990,750	53,040	16,826.28	1,095	44

*Estimated